



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Keith M. Chugg et al.

Application No.: 10/006,795

Filed: December 4, 2001

For: A METHOD FOR CO-CHANNEL
INTERFERENCE IDENTIFICATION
AND MITIGATION

Customer No.: 20350

Confirmation No.: 9845

Examiner: Jean B. Corrielus

Art Unit: 2637

SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT UNDER 37
CFR §1.97 and §1.98

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The references cited on attached form PTO/SB/08B are being called to the attention of the Examiner. Copies of the non-patent references [in compliance with the requirements of 1287 OG 163] are enclosed.

It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

This IDS is being filed before the mailing date of the final Office Action or Notice of Allowance.

Please charge the IDS fee of \$180 to Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,


Ko-Fang Chang
Reg. No. 50,829

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60574398 v1



SEP 06 2005

PTO/SB/08B (08-03)

Substitute of TRADEMARK PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT					
(use as many sheets as necessary)					
Sheet	1	of	1		
				Application Number	10/006,795
				Filing Date	December 4, 2001
				First Named Inventor	Chugg, Keith M.
				Art Unit	2637
				Examiner Name	Jean B. Corrielus
				Attorney Docket Number	020945-000110US

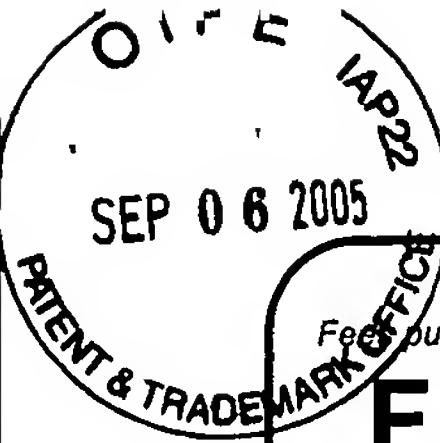
U.S. PATENT DOCUMENTS+					
		Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
Examiner Initials*	Cite No. ¹	Number Kind Code ² (if known)			
	AA	US-5,432,821	07-11-1995	Polydoros et al.	
	AB	US-			

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
	AC	J. RISSANEN, "Modeling By Shortest Data Description", Automatica, vol. 14, pp. 465-471, International Federation of Automatic Control Pergamon Press Ltd. 1978			
	AD	S. VERDU, "Minimum Probability of Error for Asynchronous Gaussian Multiple-Access Channels", IEEE Transactions on Information Theory, vol. IT-32, no. 1, January 1986			
	AE	R. ILTIS, "A Digital Receiver for Demodulation of CDMA Waveforms with A-Priori Unknown Delays and Amplitudes", MILCOM '91			
	AF	JINGDONG LIN et al., "Joint Data and Channel Estimation for TDMA Mobile Channels", IEEE 1992			
	AG	K. GIRIDHAR et al., "Joint Demodulation of Cochannel Signals Using MLSE and MAPSD Algorithms", IEEE 1993			
	AH	R. RAHELI et al., "Per-Survivor Processing: A General Approach to MLSE in Uncertain Environments", IEEE Transactions on Communications, vol. 43, no. 2/3/4, February/March/April 1995			
	AI	N.W.K. LO et al., "Adaptive Equalization for Co-Channel Interference in a Multipath Fading Environment", IEEE Transactions on Communications, vol. 43, no. 2/3/4, February/March/April 1995			
	AJ	S. DIGGAVI et al., "Joint Channel-Data Estimation with Interference Suppression", IEEE 1998			
	AK	G. PAPARISTO et al., "PSP Array Processing for Multipath Fading Channels", IEEE Transactions on Communications, vol. 47, no. 4, April 1999			

Examiner Signature		Date Considered
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.



Effective on 12/08/2004.
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL For FY 2005

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 180)

Complete if Known	
Application Number	10/006,795
Filing Date	December 4, 2001
First Named Inventor	Chugg, Keith M.
Examiner Name	Jean B. Corrielus
Art Unit	2637
Attorney Docket No.	020945-000110US

METHOD OF PAYMENT (check all that apply)

Check Credit Card Money Order None Other (please identify): _____
 Deposit Account Deposit Account Number: 20-1430 Deposit Account Name: Townsend and Townsend and Crew LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

Charge fee(s) indicated below Charge fee(s) indicated below, except for the filing fee
 Charge any additional fee(s) or underpayments of fee(s) Credit any overpayments
 under 37 CFR 1.16 and 1.17

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038

FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

<u>Application Type</u>	<u>FILING FEES</u>		<u>SEARCH FEES</u>		<u>EXAMINATION FEES</u>		<u>Fees Paid (\$)</u>
	<u>Small Entity</u>	<u>Fee (\$)</u>	<u>Small Entity</u>	<u>Fee (\$)</u>	<u>Small Entity</u>	<u>Fee (\$)</u>	
Utility	300	150	500	250	200	100	_____
Design	200	100	100	50	130	65	_____
Plant	200	100	300	150	160	80	_____
Reissue	300	150	500	250	600	300	_____
Provisional	200	100	0	0	0	0	_____

2. EXCESS CLAIM FEES

Fee Description

Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent 50 25
 Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent 200 100
 Multiple dependent claims 360 180

<u>Total Claims</u>	<u>Extra Claims</u>	<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>	<u>Multiple Dependent Claims</u>	
				<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>
-20 or HP =	x	=			

HP = highest number of total claims paid for, if greater than 20

<u>Indep. Claims</u>	<u>Extra Claims</u>	<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>	<u>Multiple Dependent Claims</u>	
				<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>
-3 or HP =	x	=			

HP = highest number of independent claims paid for, if greater than 3

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

<u>Total Sheets</u>	<u>Extra Sheets</u>	<u>Number of each additional 50 or fraction thereof</u>	<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>
- 100 =	/ 50 =	(round up to a whole number) x	=	

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other: Submission of Supplemental Information Disclosure Stmt

Fees Paid (\$)

180

SUBMITTED BY

Signature		Registration No. (Attorney/Agent) 50,829	Telephone 650-326-2400
Name (Print/Type)	Ko-Fang Chang		Date September 1, 2005